

Statistics Unit 2 – Univariate Data
Unit Test I – Graphs REVIEW

Name: _____
Date: _____

Here is a stemplot of the age of riders on the carousel at the National Zoo.

Age of riders on a Carousel

stem	leaf
0	1, 1, 2, 2, 3, 4, 4, 4, 4, 5, 8
1	0, 0, 0, 1, 1, 3, 7, 9
2	5, 5, 7, 7, 8, 8, 9, 9
3	0, 1, 1, 1, 2, 2, 2, 4, 5
4	0, 4, 8, 9
5	2, 6, 7, 7, 8
6	3, 6

Key: 6|3 = 63 years old

- 1) What is the age of the **youngest** rider? (1pt)

1yo

- 2) What is the age of the **oldest** rider? (1pt)

66yo

- 3) What does the number **4|0** mean? (1pt)

40yo

- 4) Describe the **shape**, **center**, and **spread** of this data in context. (Tell what they mean in terms of cereals.) (6pts)

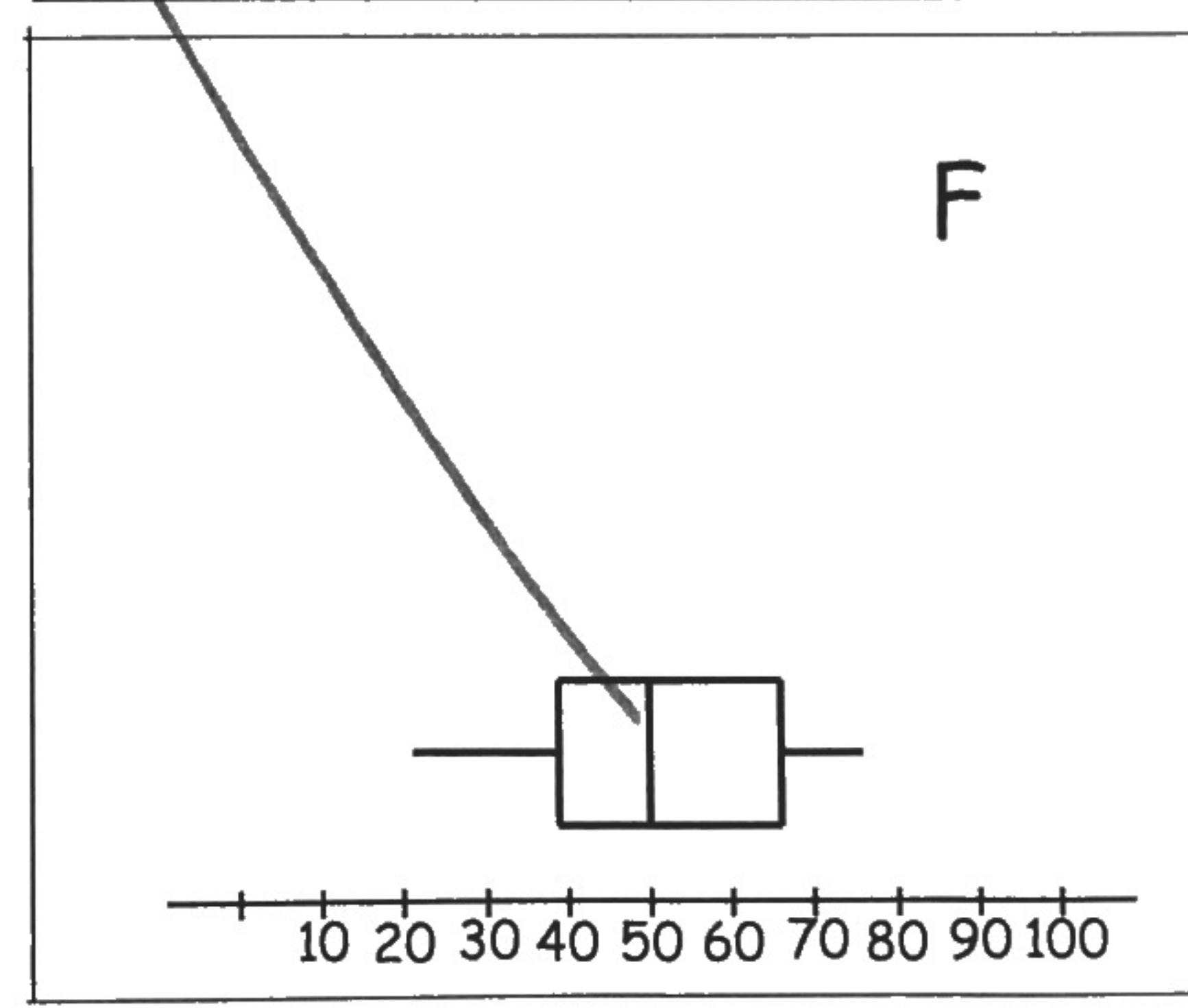
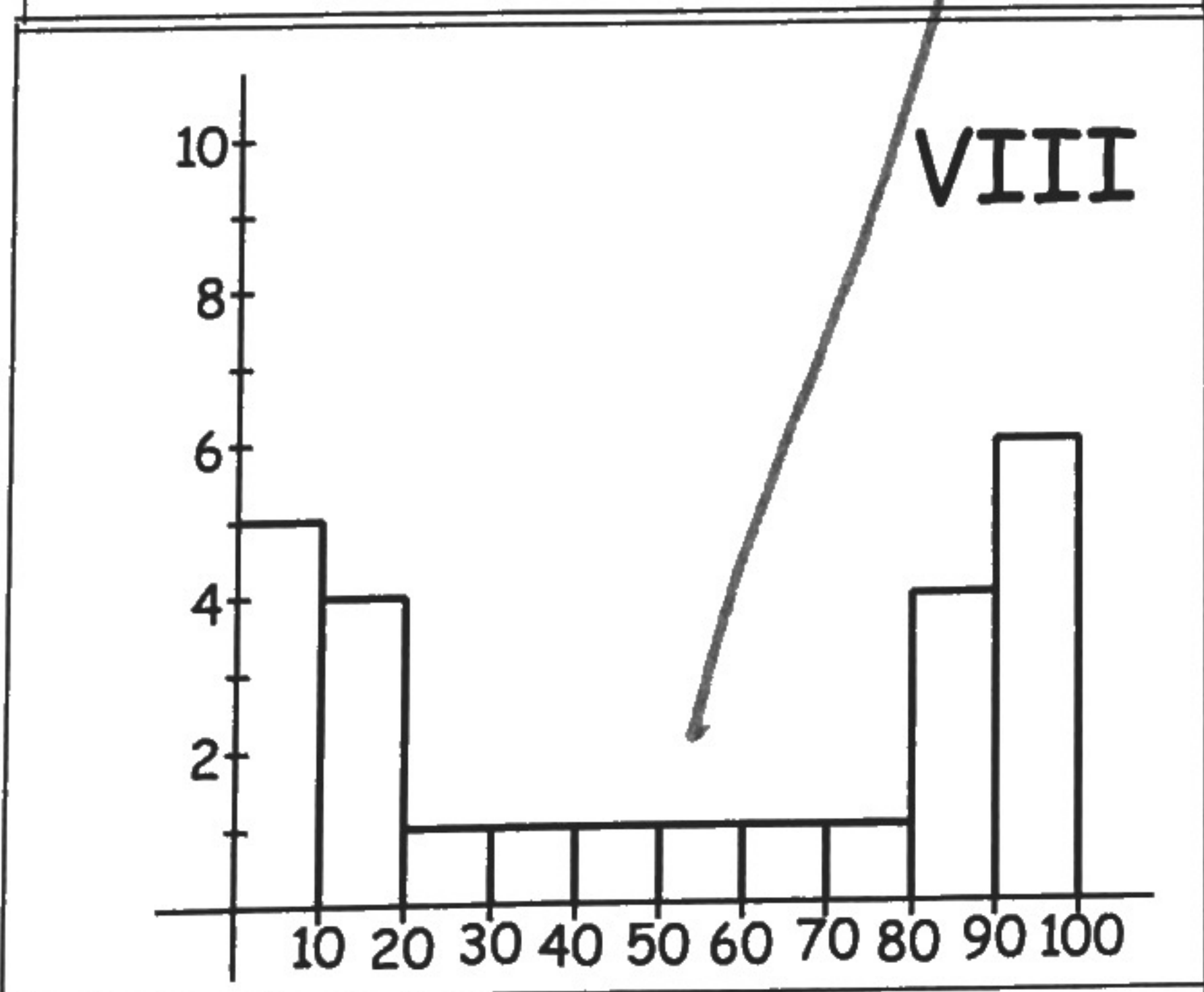
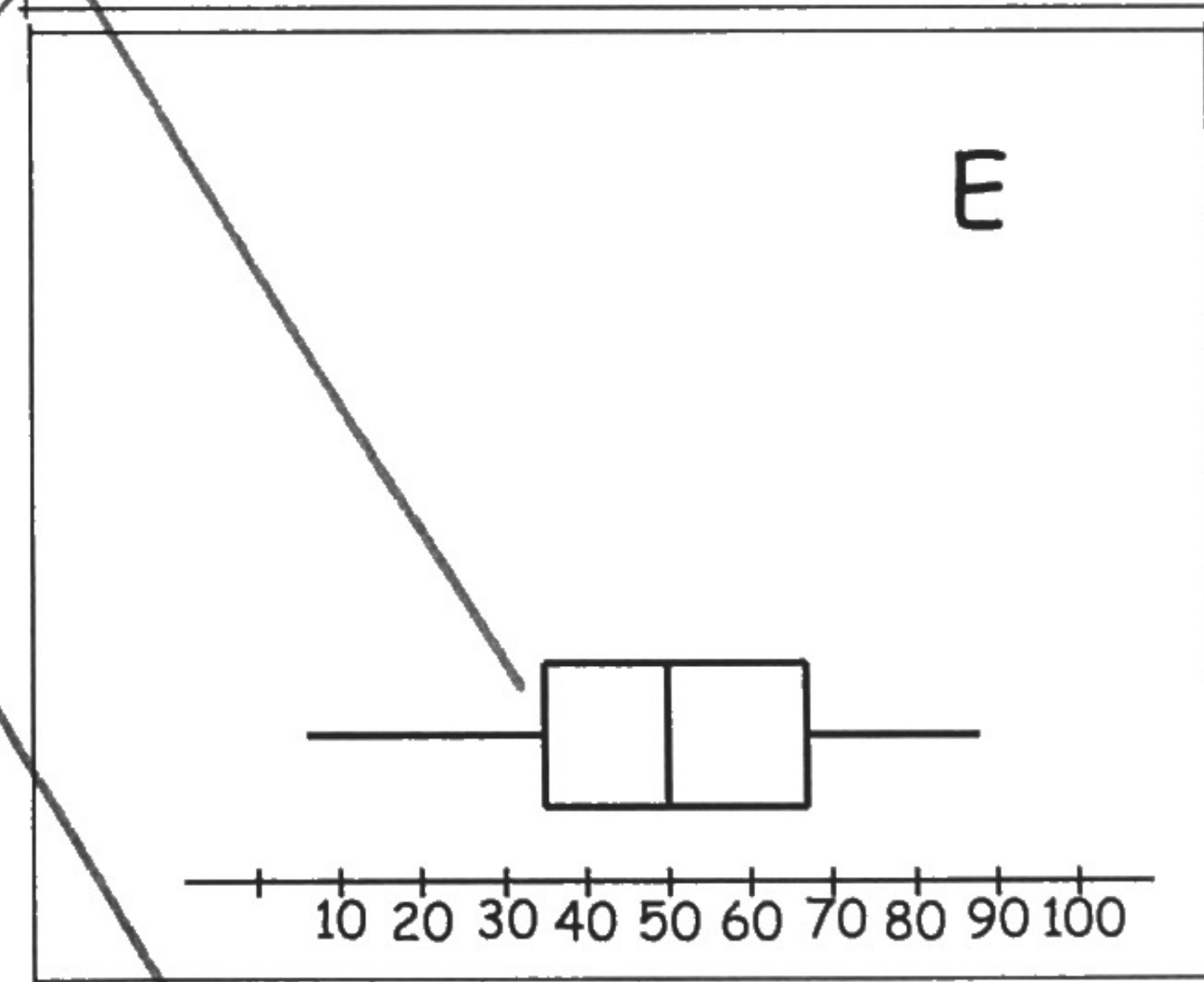
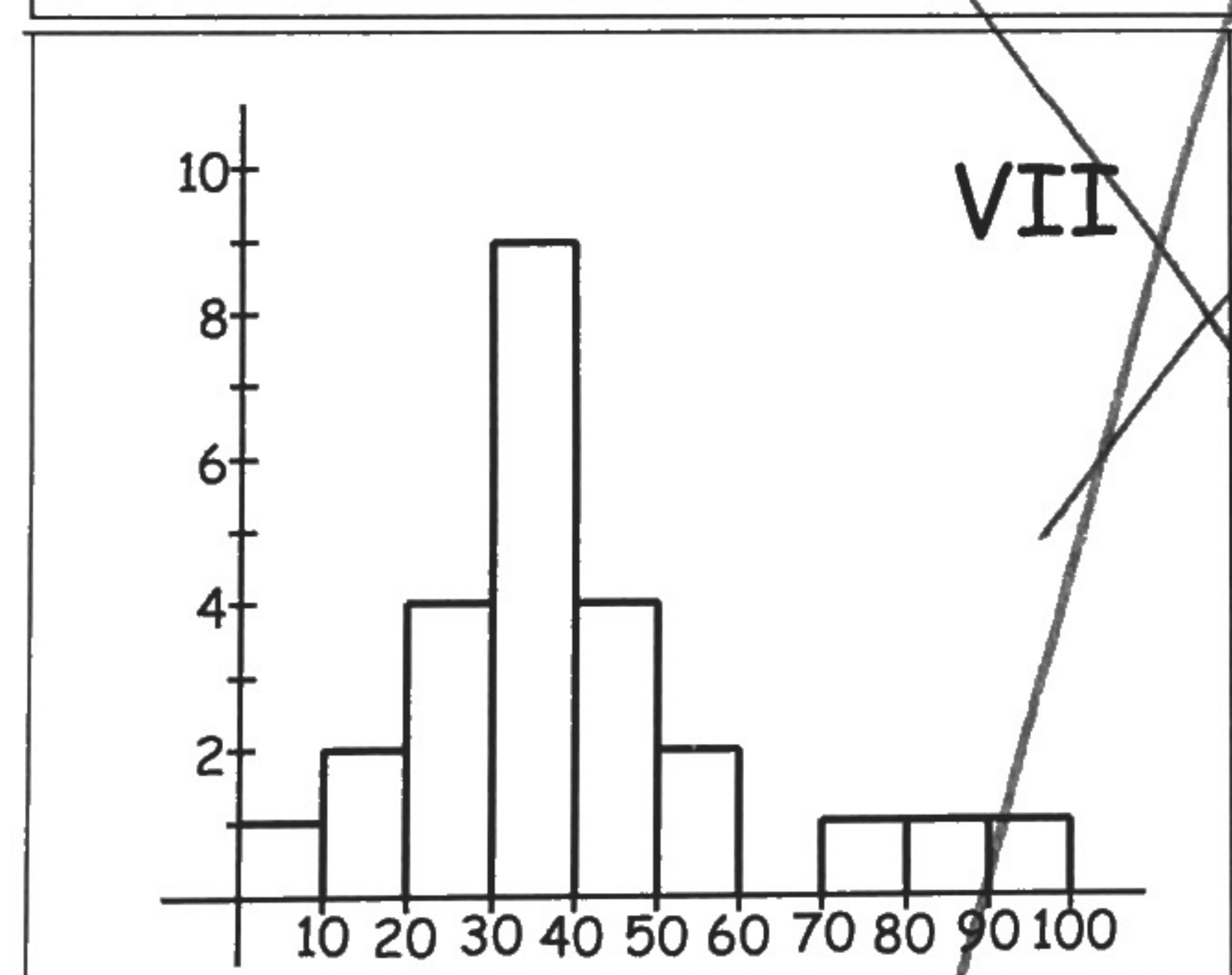
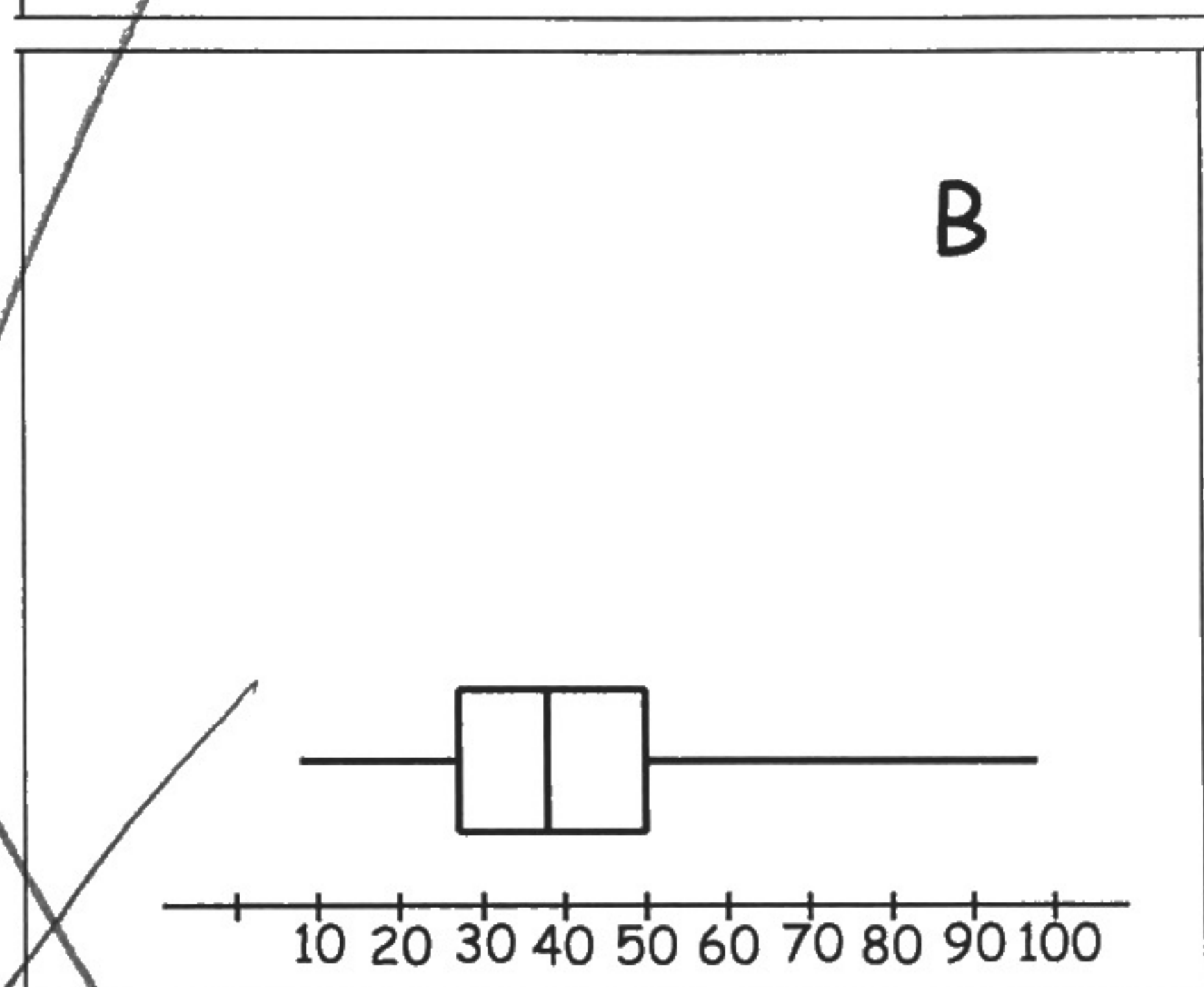
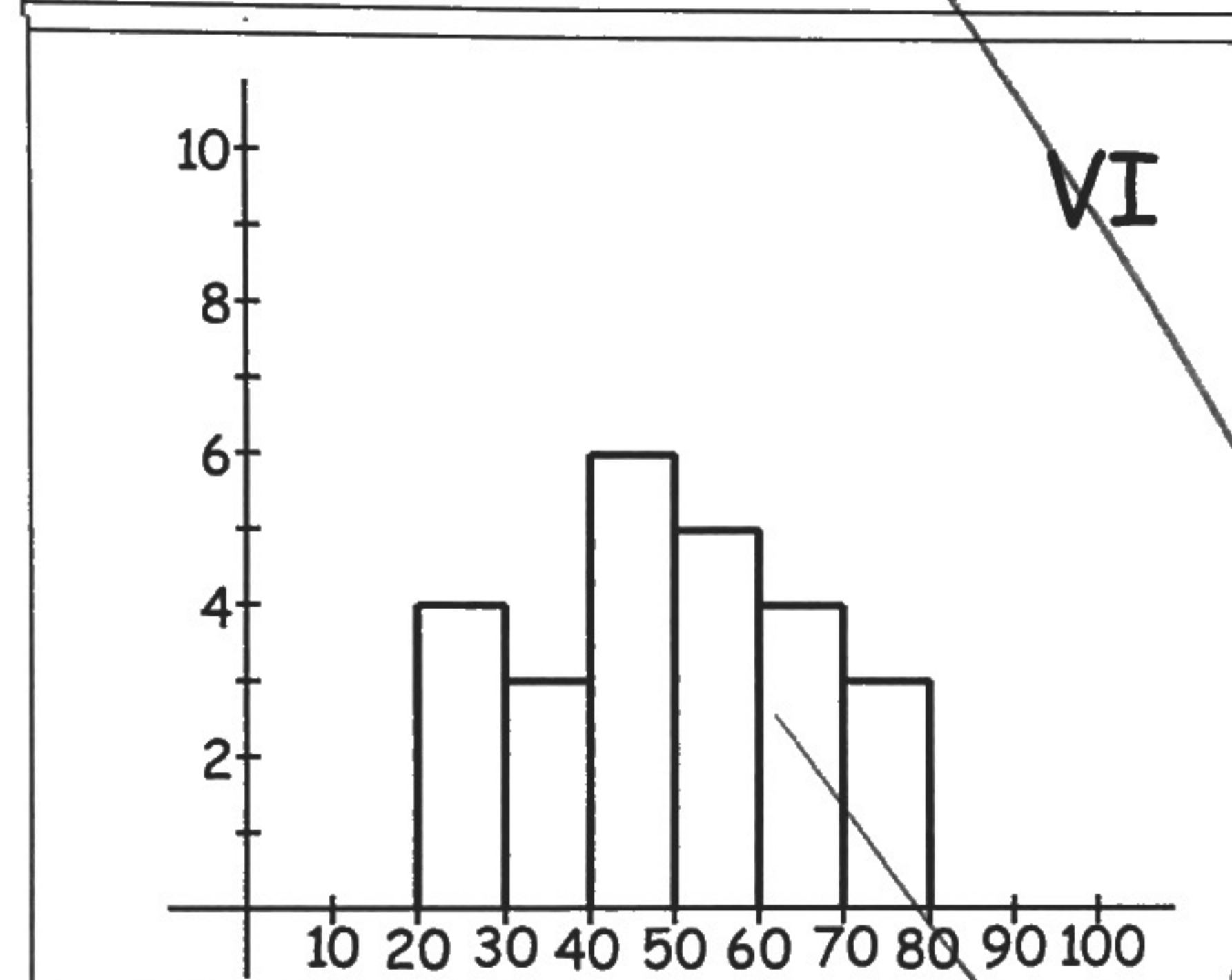
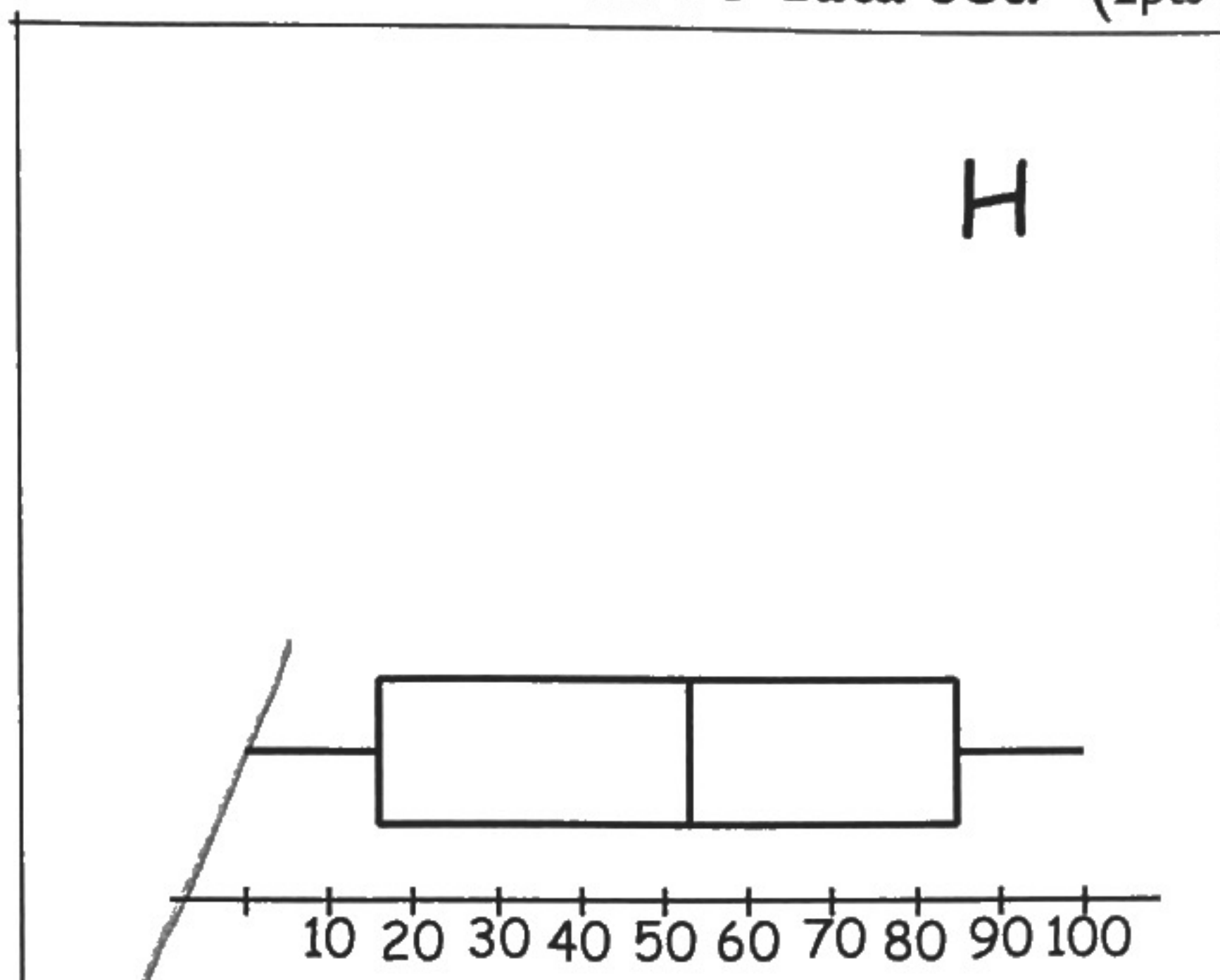
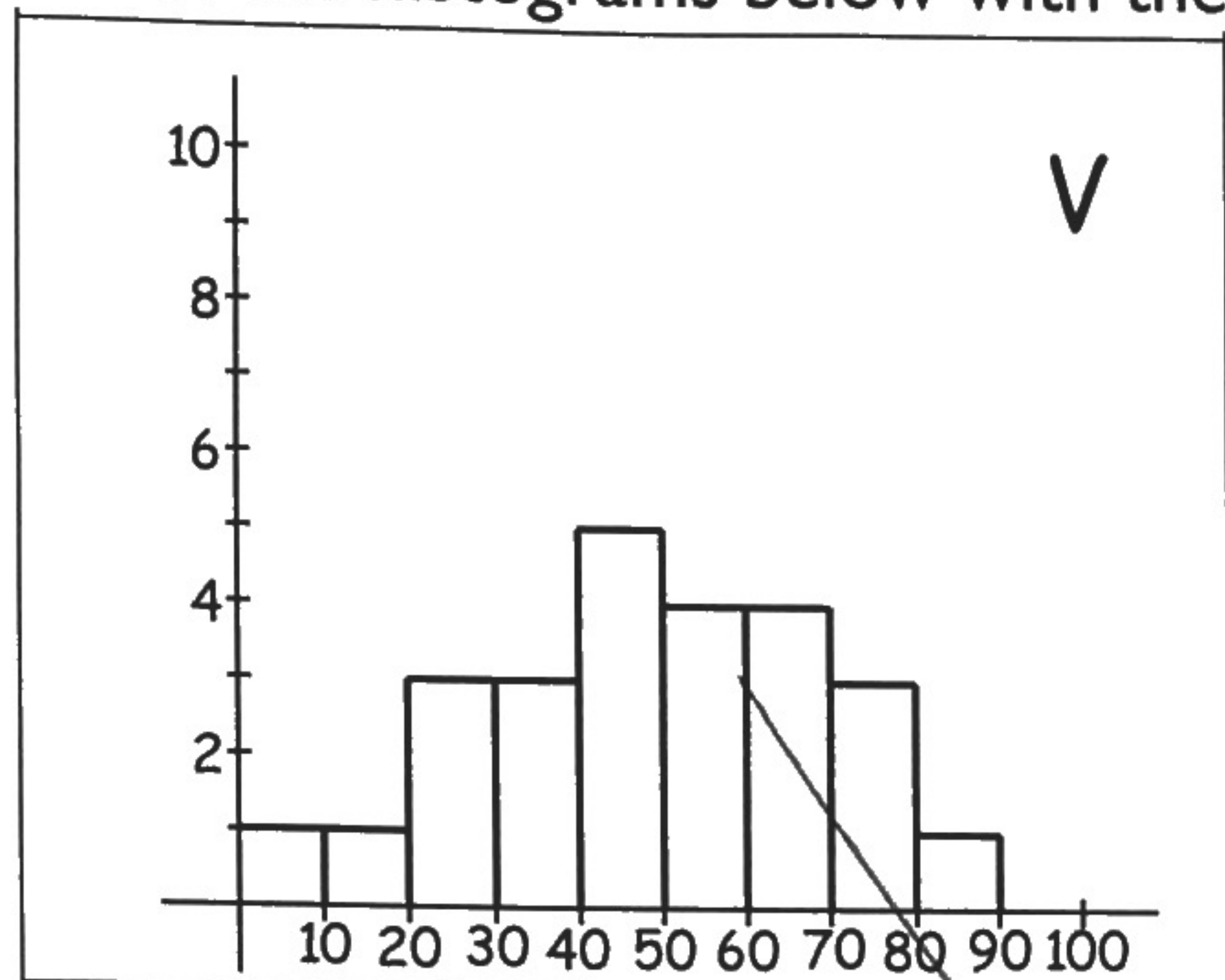
These data are right-skewed, which means that a greater number of riders are young. The center is approximately 29 years old. This data is reasonably spread out, since the ages range from 1 to 66 years old.

- 5) Could we make a **dotplot** of this data? Why or why not? (2pts)

We could make a dotplot of the data because this data is numerical.

Statistics Unit 2 – Univariate Data
Unit Test I – Graphs REVIEW

6) Match the histograms below with the boxplots that show the same data set. (2pts each)



Statistics Unit 2 – Univariate Data
Unit Test 1 – Graphs REVIEW

The final exam scores from last year's Statistics class are below.

~~71~~
~~98~~
~~62~~
~~86~~
~~92~~

~~80~~
~~46~~
~~62~~
~~74~~
~~26~~

~~84~~
~~66~~
~~89~~
~~68~~
~~64~~

~~77~~
~~80~~
~~80~~
~~59~~
~~82~~

~~71~~
~~59~~
~~64~~
~~98~~
~~87~~

7) Make a **stemplot** of these data. (6pts)

Final Exam Scores 71 = 71

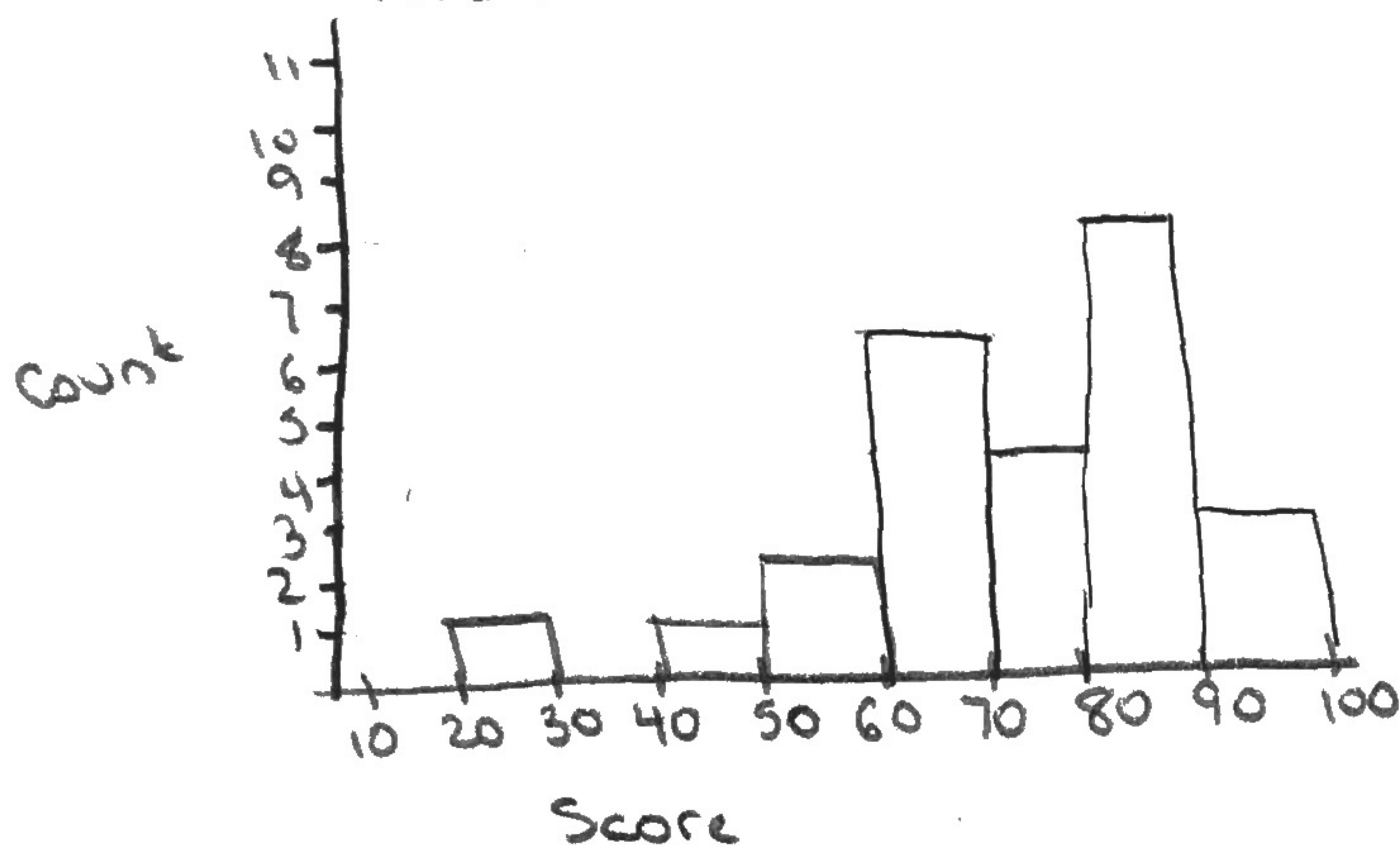
```

2 | 6
3 |
4 | 6
5 | 9 9
6 | 2 4 4 6 8 9
7 | 1 1 4 7
8 | 0 0 0 2 4 6 7 9
9 | 2 8 8
  
```

26
46
59
59
62
64
64
66
68
69
71
71
74
77
80
80
80
82
84
86
87
89
92
98
98

8) Make a **histogram** of these data. (6pts)

Final Exam Scores



9) **Describe** your histogram using **SOCS**. (4pts)

These exam scores are left-skewed. Most people earned B's, but a few people earned low grades. The center grade was a 74. There are no outliers. The data is spread apart.

Statistics Unit 2 – Univariate Data
Unit Test 1 – Graphs

The final exam scores from last year's Statistics class are below.

10) Find the **five-number summary** of the data. (5pts)

minimum: 26
Q1: 64
median: 74
Q3: 85
maximum: 98

26 ✓
46 ✓
59 ✓
59 ✓
62 ✓
64 ✓ ← Q1
64 ✓
66 ✓
68 ✓
69 ✓
71 ✓
71 ✓
Median — 74
77 ✓
80 ✓
80 ✓
80 ✓
82 ✓
84 ✓
86 ✓ ← Q3
87 ✓
89 ✓
92 ✓
98 ✓
98 ✓

11) Make a **boxplot** of the data. (6pts)

Final Exam Scores

